

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-241388

(43)Date of publication of application : 11.09.1998

(51)Int.Cl.

G11C 16/06

G11C 16/02

H02M 3/00

H02M 3/07

(21)Application number : 09-099362

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(22)Date of filing : 16.04.1997

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(30)Priority

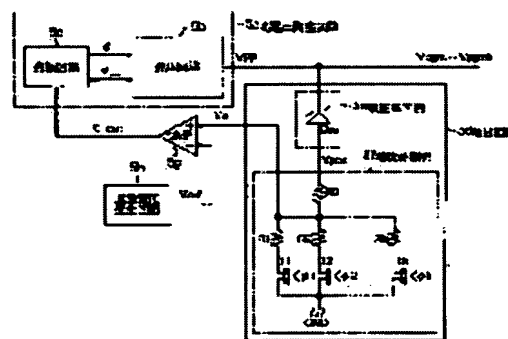
Priority number : 08358022 Priority date : 29.12.1996 Priority country : JP

(54) VOLTAGE SUPPLY CIRCUIT AND SEMICONDUCTOR NONVOLATILE STORAGE DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To generate a program voltage and to efficiently execute a data program by controlling a high voltage generating circuit with a boosting control signal obtained by a comparison result between a voltage selectively dropped from a boosted voltage of the high voltage generating circuit through a voltage dropping means and a resistance dividing means.

SOLUTION: The high voltage VPP of the high voltage generating circuit 5a is dropped by a prescribed voltage by a voltage dropping part 5e with a Zener diode Dze to output a dropped voltage VPPd. This dropped voltage VPPd is voltage-divided by a resistance dividing circuit 5f with a resistor R0 and resistor elements R1-Rk connected with transfer gates T1-Tk by control signals $\phi_{i;1}$ - $\phi_{i;k}$ to output a divided voltage Va. An oscillation circuit 5c is controlled by the boosting control signal C-out outputted by a comparator circuit 5g comparing the divided voltage Va with the reference voltage Vref. By this method, gradually increasing program word line voltages Vpgm1-k are outputted, and increase of an occupied area of the resistor elements can be avoided.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the
examiner's decision of rejection or application
converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of
rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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